

AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended): An acoustic signal input device comprising:

- 5 an input for inputting acoustic signals;
- a plurality of bandpass-~~filters~~ filtering units each for passing acoustic signals with frequencies within a predetermined frequency range, and transforming the acoustic signals into electrical signals and
- 10 amplifying the electrical signals; and
- a plurality of switches each connected to a corresponding bandpass-~~filter~~ filtering units for controlling on and off of the bandpass-~~filter~~ filtering units;
- wherein the switches are capable of being selectively turned
- 15 on ~~so as to~~ such that the bandpass filtering units amplify transformed electrical signals within different frequency ranges at different amplifications.

Claim 2 (currently amended): The acoustic signal input

- 20 device of claim 1 wherein each of the bandpass-~~filter~~ filtering units comprises:
- two signal transformation units for transforming acoustic signals into electrical signals, the signal transformation units having different resonant
- 25 frequencies for filtering the electrical signals; and
- a differential amplifier electrically connected to the signal transformation units for amplifying a

difference between the electrical signals transmitted
from the signal transformation units.

5 Claim 3 (currently amended): The acoustic signal input device
of claim 1 wherein each of the ~~bandpass-filter~~ filtering units
is an amplitude-tunable filter capable of changing
amplification of electrical signals.

10 Claim 5 (currently amended): The acoustic signal input device
of claim 1 wherein the plurality of ~~bandpass-filter~~ filtering
units are formed by performing a micromachining fabrication
process.

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15 Claim 6 (currently amended): The acoustic signal input
device of claim 1 ~~being a microphone~~ 2 wherein the signal
transformation units are microphones.

Claim 7 (currently amended): An acoustic signal input device
comprising:
20 an input for inputting acoustic signals;
a plurality of bandpass filters each for passing acoustic
signals with frequencies within a predetermined
frequency range and transforming the acoustic signals
into electrical signals;
25 a plurality of amplification circuits connected to
the bandpass filters for amplifying electrical
signals transmitted from the bandpass filters; and
a plurality of switches each connected to a corresponding
amplification circuit for controlling on and off of

the amplification circuit;
wherein the switches are capable of being controlled to
selectively turn on the amplification circuits so as to
amplify electrical signals transmitted from the bandpass
5 filters within different frequency ranges at different
amplifications.

Claim 12 (currently amended): The acoustic signal input device
of claim 7 ~~being a microphone~~ 8 wherein the signal
10 transformation units are microphones.

Claim 14 (currently amended): The acoustic signal output
device of claim 13 wherein each of the amplifying elements
has a ~~greatest~~ specific amplification for electrical signals
15 within a frequency range corresponding to a frequency range
of a channel that is connected to the amplifying element.